

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C12N 5/00</b>		A2	(11) International Publication Number: <b>WO 00/52142</b> (43) International Publication Date: 8 September 2000 (08.09.00)
(21) International Application Number: <b>PCT/DK00/00080</b> (22) International Filing Date: 25 February 2000 (25.02.00)  (30) Priority Data: PA 1999 00273 26 February 1999 (26.02.99) DK		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(71)(72) Applicants and Inventors: ANDERSEN, Claus, Yding [DK/DK]; Classensgade 17A, 4. th., DK-2100 Copenhagen Ø (DK). BYSKOV, Anne, Grete [DK/DK]; Solbakkevej 56 A, DK-2810 Gentofte (DK).  (74) Agent: PLOUGMANN, VINGTOFT & PARTNERS A/S; Sankt Anna Plads 11, P.O. Box 3007, DK-1021 Copenhagen K (DK).		Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(54) Title: MEIOSIS ACTIVATING STEROL AUGMENTS IMPLANTATION RATE			
(57) Abstract			
<p>The present invention relates to the use of a new principle for improving the viability and pregnancy potential of oocytes and pre-embryos obtained in connection with <i>in vitro</i> fertilisation and pre-embryo transfer treatment. More specifically, improvement by raising the content of Meiosis Activating Sterols (MAS) in the medium where the <i>in vitro</i> fertilisation takes place. This is achieved by exposing and culturing one or more oocytes with spermatozoa in a culture medium comprising at least one meiosis activating sterol (MAS), a MAS analogue, and/or an additive or additives capable of endogenous stimulation of the accumulation of at least one MAS. Preferred additives are FSH and EGF.</p>			